

**ABSTRACT**

**STENTS AND METHODS FOR PREPARING STENTS FROM WIRES  
HAVING HYDROGEL COATING LAYERS THEREON**

Radially expandable stents having hydrogel coating layers thereon, and methods of preparing such stents are disclosed. The methods include coating a wire with a solution that includes a solvent and a water soluble polymer in the solvent, evaporating the solvent to provide a polymeric coating on the wire, and crosslinking the polymeric coating to provide a hydrogel coating layer on the wire. The coated wire can be fabricated into stents, which preferably have substantially uniform coatings with low surface roughness. Preferably the coatings have hydrophilic properties and provide a biocompatible surface. The coatings may also provide for the delivery of biologically active agents into the body.

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